

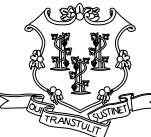
XX - STRUCTURES - MAST ARMS

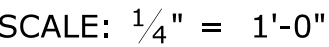
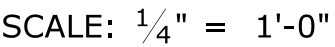
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
MA-1	INDEX OF DRAWINGS
MA-2	STEEL MAST ARM ASSEMBLY ELEVATION
MA-3	STEEL MAST ARM ASSEMBLY DETAILS
MA-4	STEEL MAST ARM ASSEMBLY FOUNDATION DETAILS


THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

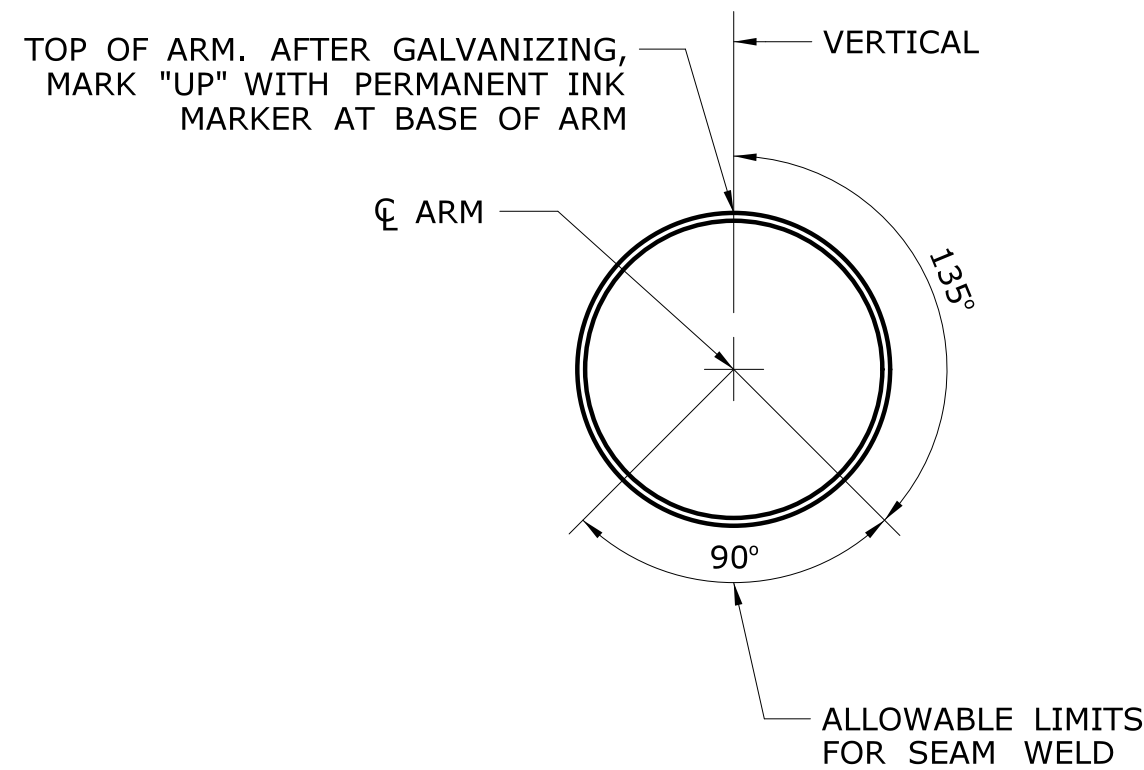
TRANSPORTATION PRINCIPAL ENGINEER

				<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>	DESIGNER/DRAFTER: -	 <p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Filename: ...\\XXXXXXXXX_SB_IndexOfDrawings_SMA1_2021-2-23.dgn</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: - -	TOWN: -	PROJECT NO. -
			CHECKED BY: -				DRAWING NO. MA-1			
			SCALE AS NOTED				SHEET NO.			
REV.	DATE	REVISION DESCRIPTION	SHEET NO.		Plotted Date: 3/1/2021					DRAWING TITLE: INDEX OF DRAWINGS



THE MAIST ARM ASSEMBLIES SHALL BE DESIGNED TO SUPPORT TRAFFIC APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN ON THE TRAFFIC PLANS.

						THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: - CHECKED BY: - SCALE AS NOTED		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: APPROVED BY: - - -		PROJECT TITLE:		TOWN: -		PROJECT NO. - DRAWING NO. MA-2 SHEET NO.		
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 3/1/2021				Filename: ...\\XXXXXXXXX_SB_MastArm_SMA2_Elev_2-23-21.dgn											

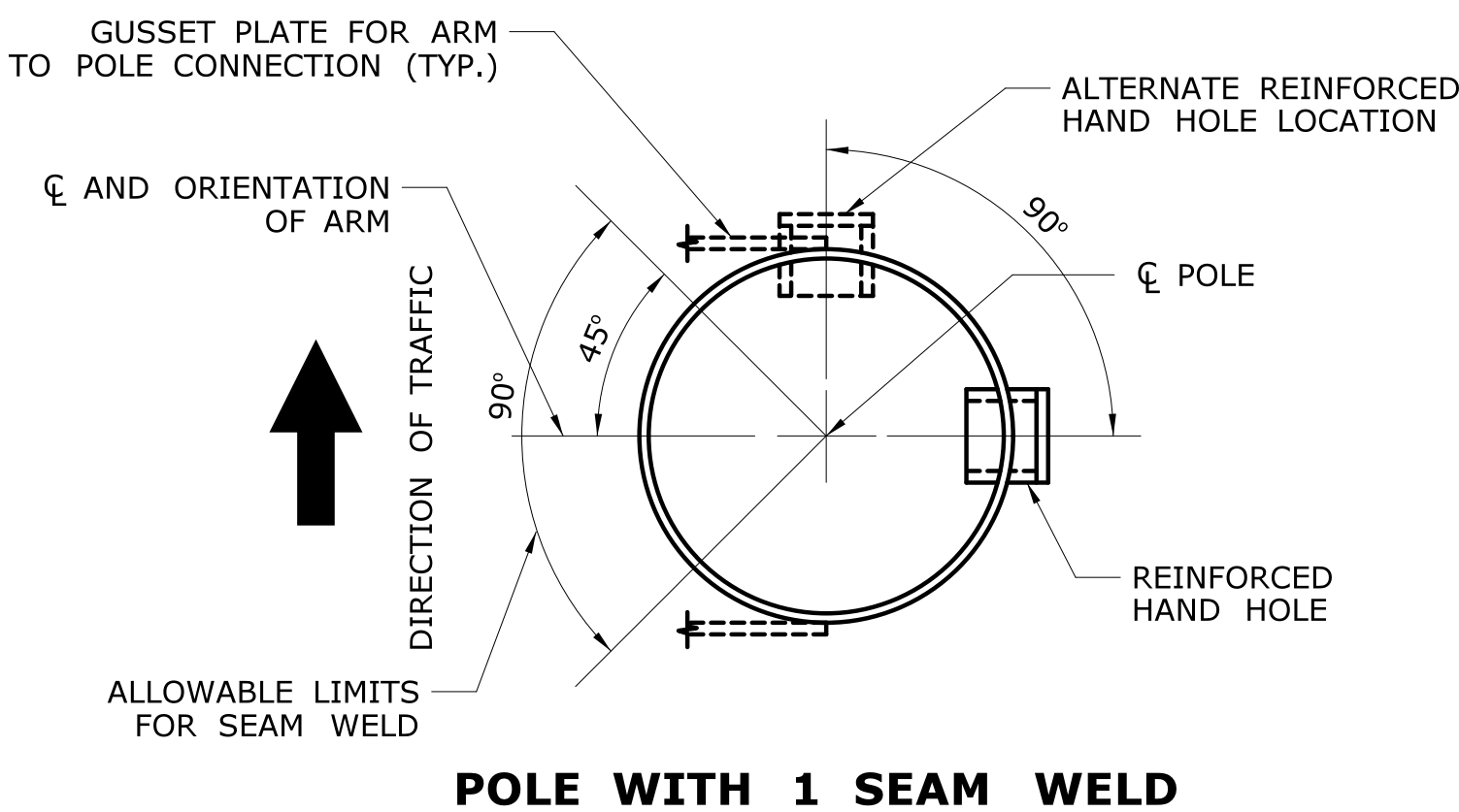


SECTION A
SCALE: 1 1/2" = 1'-0"
MA-2

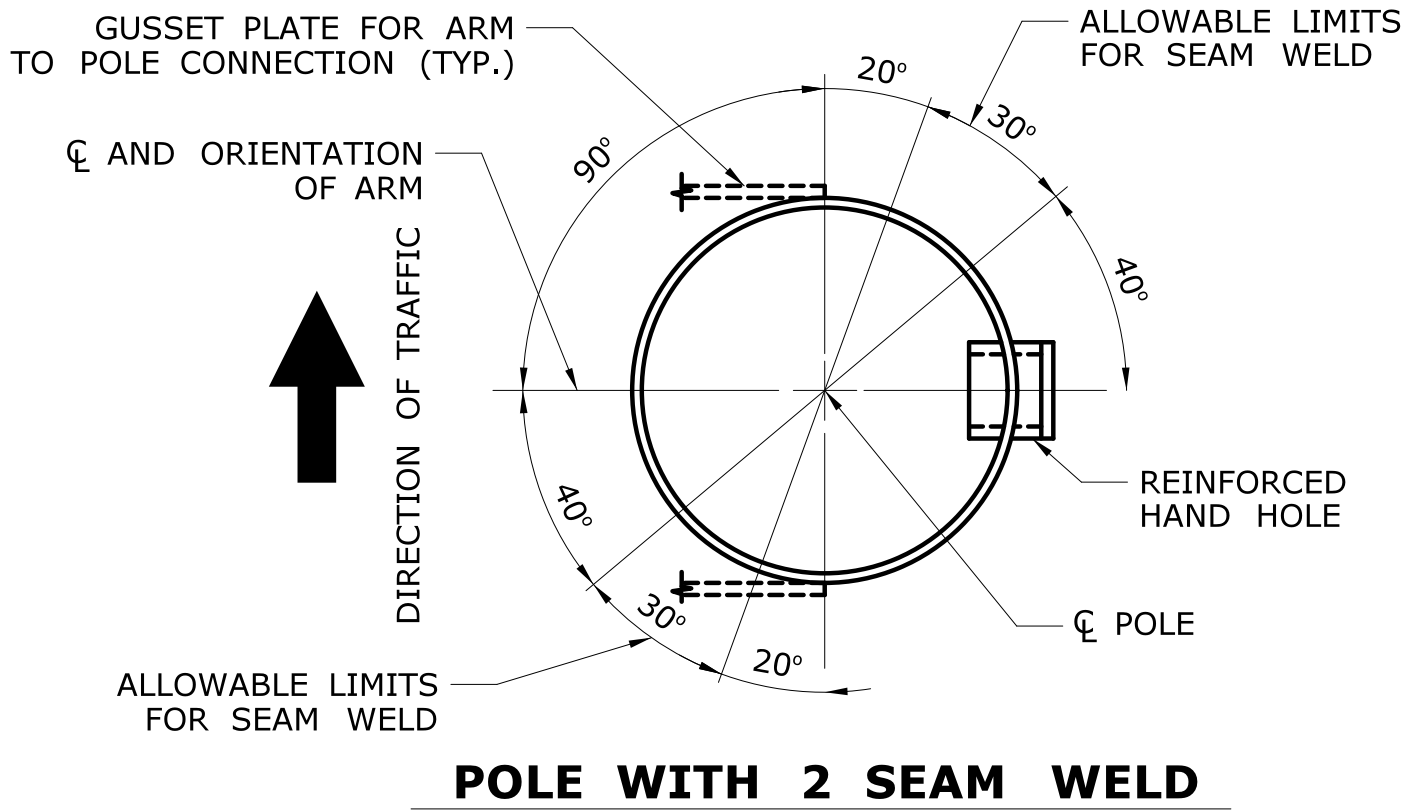
ATTACH TAG TO POLE AND ARM WITH SELF-TAPPING TAMPER RESISTANT STAINLESS STEEL SCREWS (TYP.)

- IDENTIFICATION NUMBER:
- MANUFACTURER:
- DATE OF MANUFACTURE: MM/YY
- ARM LENGTH: IN FEET (METERS)
-

IDENTIFICATION TAG - N.T.S.

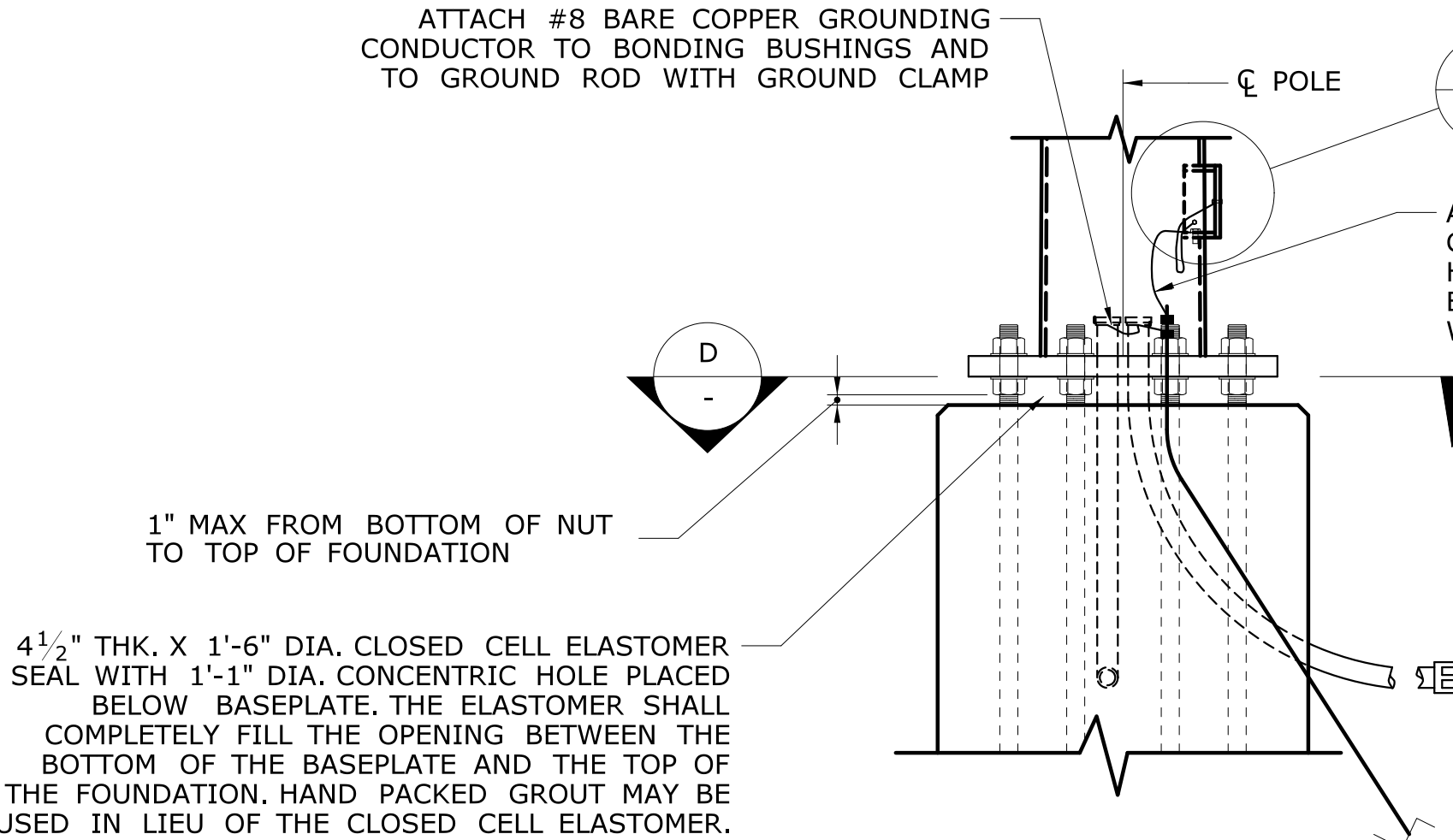


POLE WITH 1 SEAM WELD

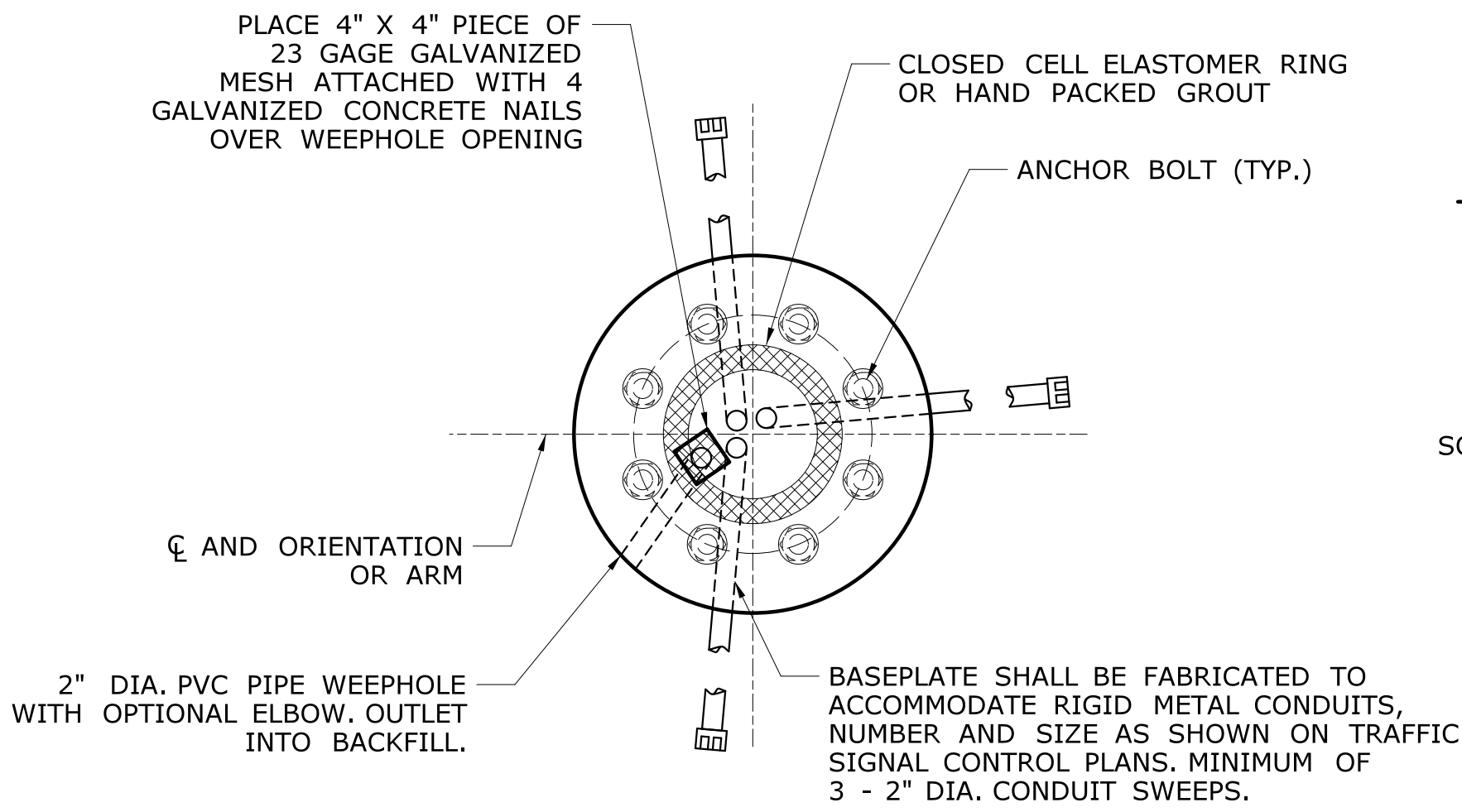


POLE WITH 2 SEAM WELD

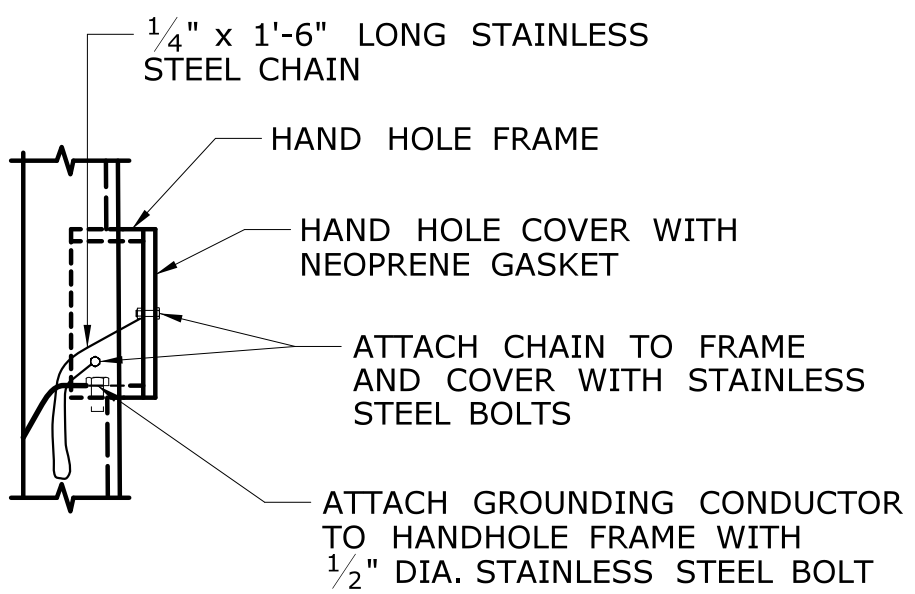
SECTION B
SCALE: 1 1/2" = 1'-0"
MA-2




SECTION C
SCALE: 3/4" = 1'-0"
MA-2



SECTION D
SCALE: 3/4" = 1'-0"
-



DETAIL E
SCALE: 1 1/2" = 1'-0"
-

				DESIGNER/DRAFTER: -		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION <small>Filename: ...\\XXXXXXXXX_SB_MastArm_SMA3_Details.2021-2-23.dgn</small>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: -	PROJECT TITLE: -	TOWN: -	PROJECT NO. -					
				CHECKED BY: -											
				SCALE AS NOTED											
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/1/2021											

FOUNDATION NOTES

THE DRILLED SHAFT FOUNDATION FOR THE MAST ARM ASSEMBLY SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "TRAFFIC CONTROL FOUNDATION - MAST ARM".

THE FOUNDATION SHALL BE DESIGNED FOR THE SOILS AND ROCK PROPERTIES BASED ON THE SUBSURFACE CONDITIONS (CHARACTER OF THE SOIL AND ROCK, PRESENCE OF GROUND WATER, ETC.) IN THE LOCATION OF, ADJACENT TO AND BELOW THE DRILLED SHAFT FOUNDATION EXCAVATION. THE NEED AND EXTENT OF ALL SUBSURFACE EXPLORATIONS AND INVESTIGATIONS SHALL BE DETERMINED BY THE CONTRACTOR.

THE DESIGN OF THE FOUNDATION SHALL BE COORDINATED WITH THE MAST ARM ASSEMBLY AND THE MAST ARM ANCHORAGE TO ENSURE THAT THE FOUNDATION IS ADEQUATE FOR THE MAST ARM REACTIONS AND TO AVOID CONFLICTS BETWEEN THE EMBEDDED MAST ARM ANCHORAGE AND THE FOUNDATION REINFORCEMENT.

THE CONCRETE FOR THE FOUNDATION SHALL CONFORM TO CLASS PCC04460. THE COMPRESSIVE STRENGTH, f'_c , USED IN DESIGN OF THE FOUNDATION SHALL BE 4,000 PSI. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES AND M.03 - PORTLAND CEMENT CONCRETE.

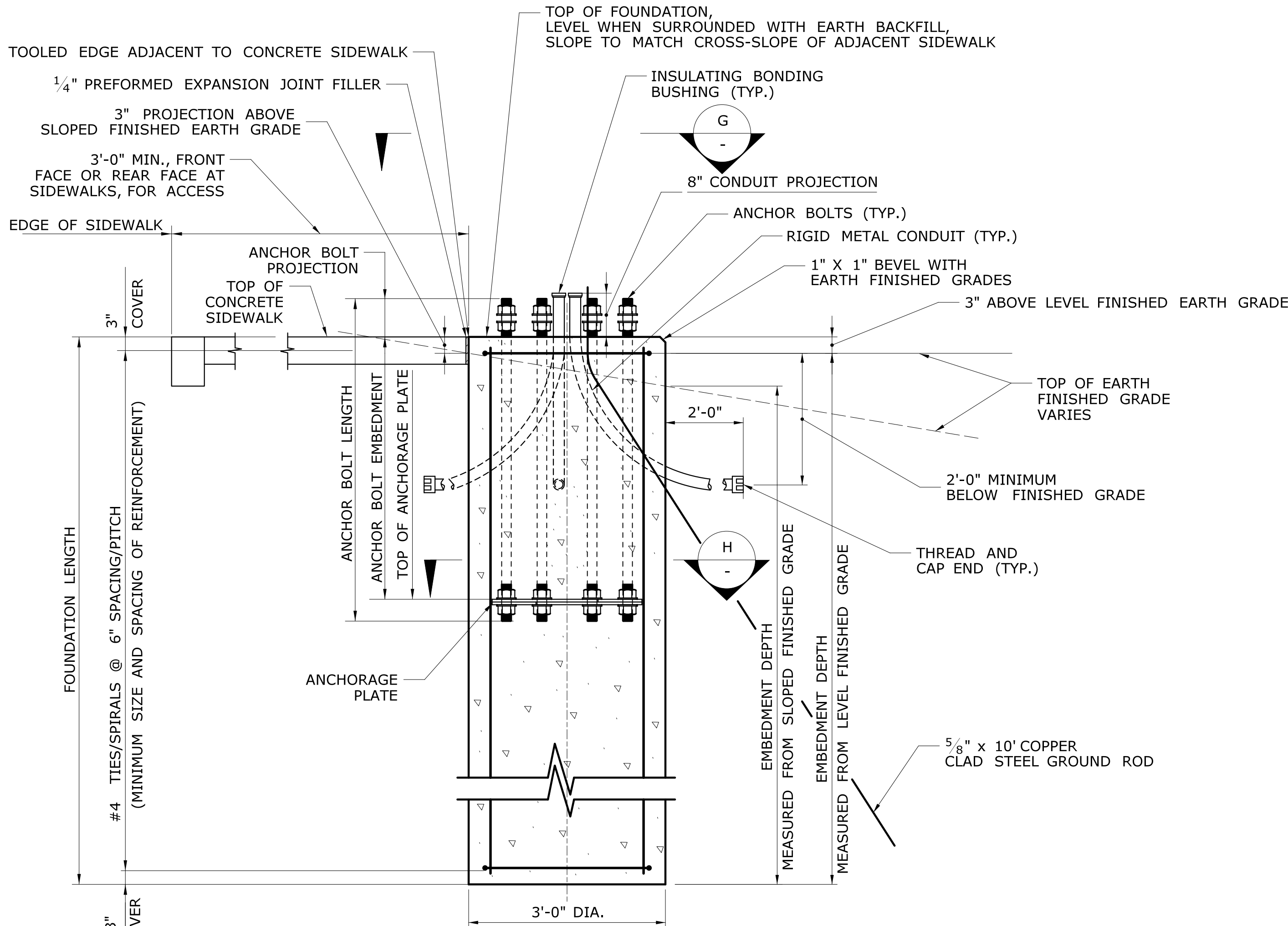
THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60. THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" COVER, UNLESS OTHERWISE NOTED.

THE CONCRETE SHALL BE PLACED IN THE EXCAVATION AGAINST UNDISTURBED EARTH.

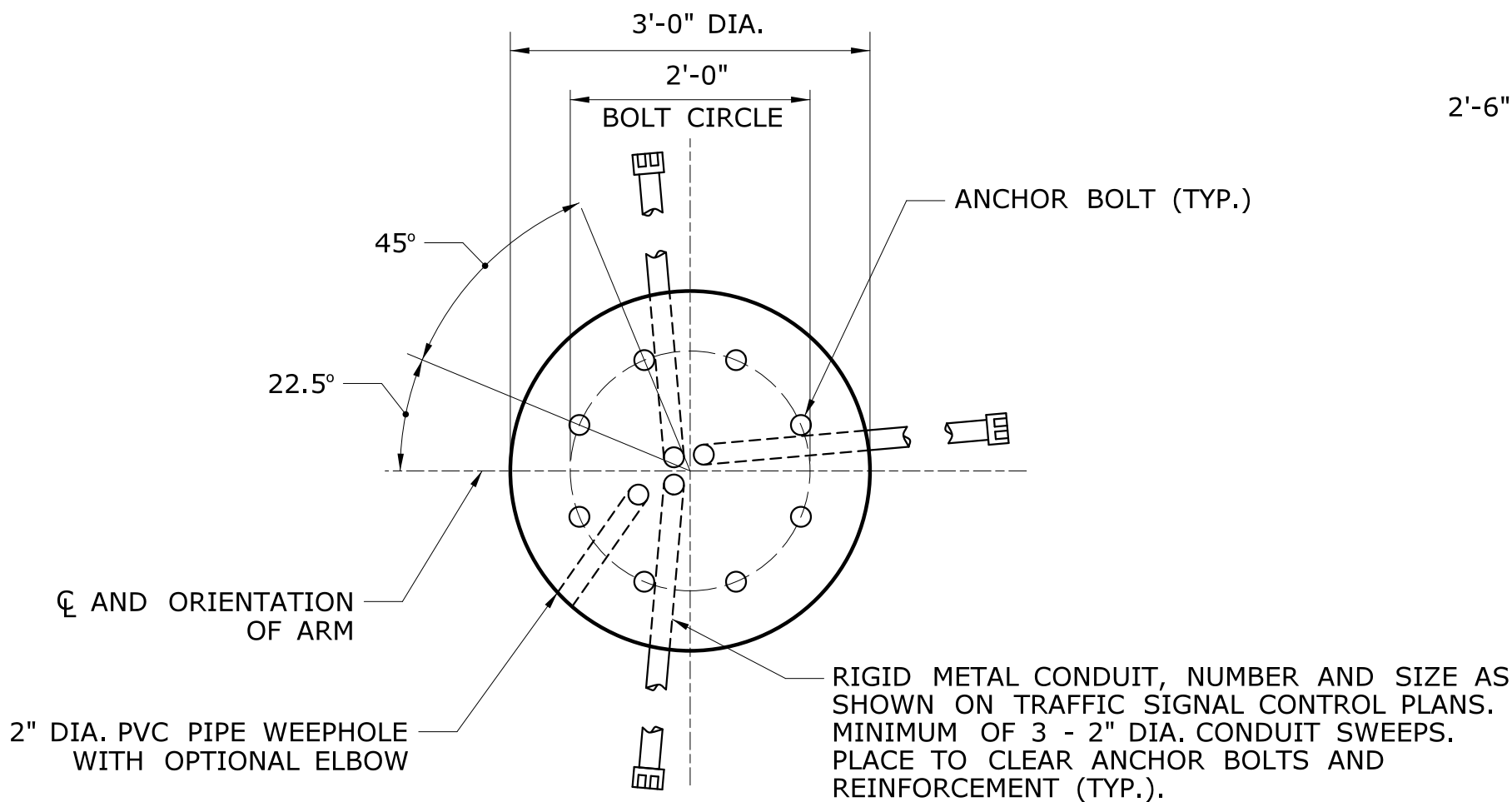
THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL THE CONCRETE IN THE SHAFT HAS ATTAINED A COMPRESSIVE STRENGTH, f'_c , GREATER THAN OR EQUAL TO 4000 PSI.

THE COST OF THE FOUNDATION, INCLUDING THE EXCAVATION, CONCRETE AND REINFORCEMENT, INCLUDING THE DESIGN AND FABRICATION, TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION - MAST ARM".

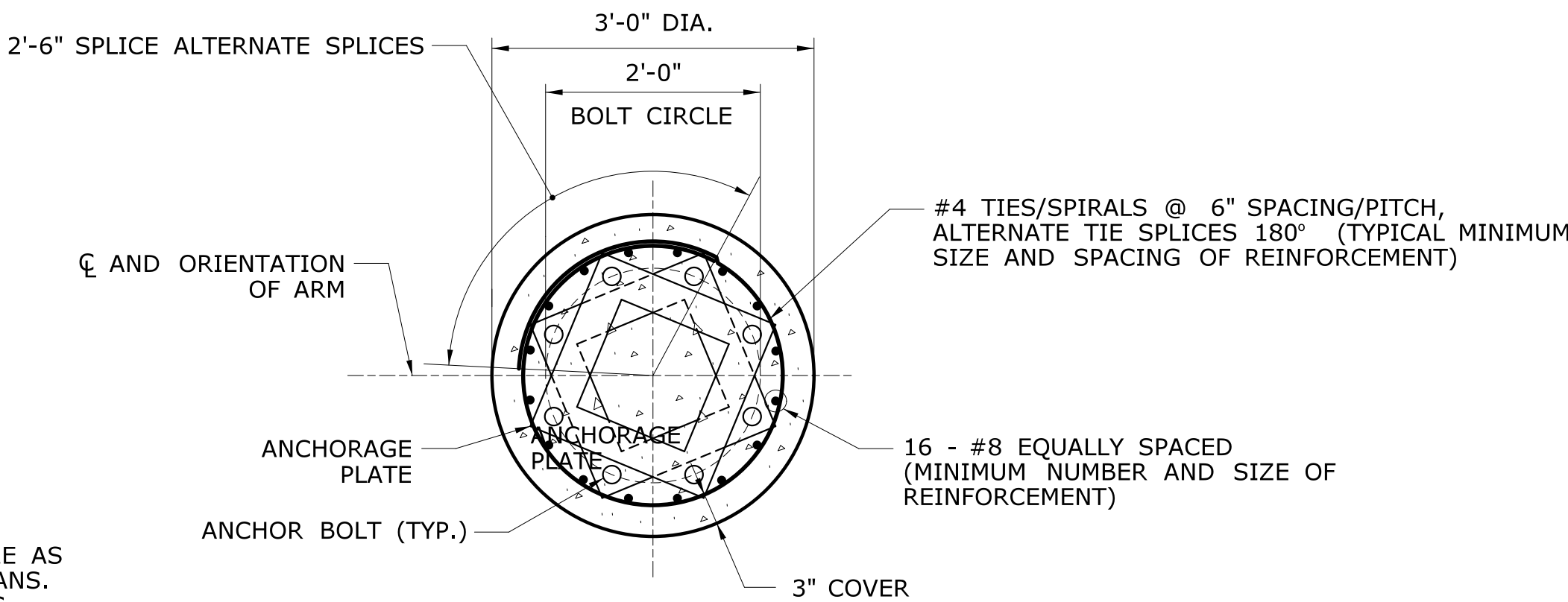
WHERE AN EXISTING CONCRETE SLAB ABUTTING A FOUNDATION IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SECTION.




SECTION F
SCALE: 3/4" = 1'-0"
MA-2



SECTION G
SCALE: 3/4" = 1'-0"



SECTION H
SCALE: 3/4" = 1'-0"

				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: - CHECKED BY: - SCALE AS NOTED	<div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div> <div>Filename: ...\\XXXXXXXXX_SB_MastArm_SMA4_FndDetails_2021-2-23.dgn</div>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: - - -	PROJECT TITLE:
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